

Fig. 2

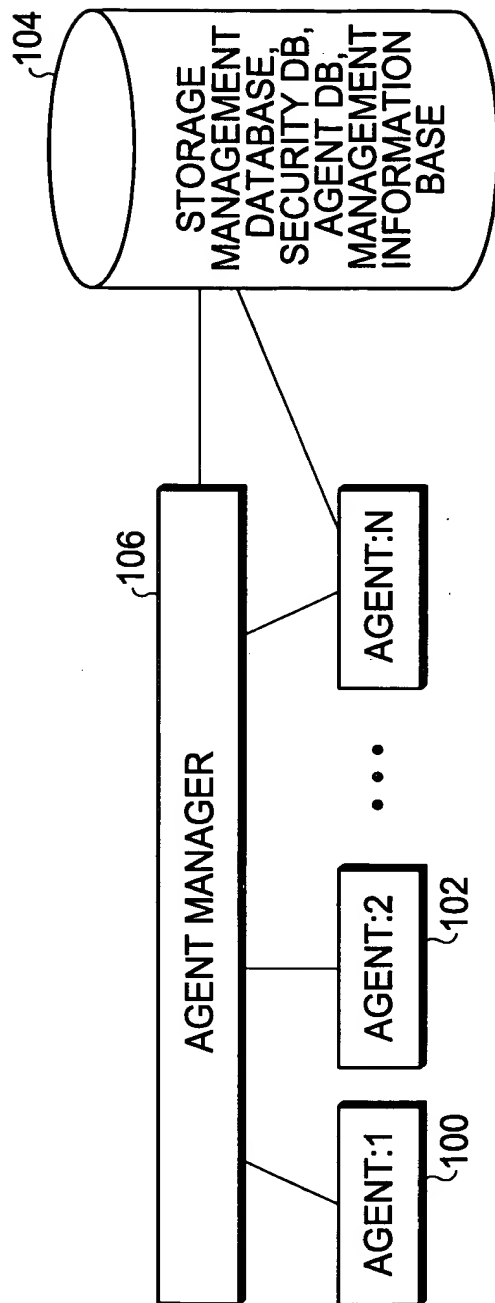


Fig. 3

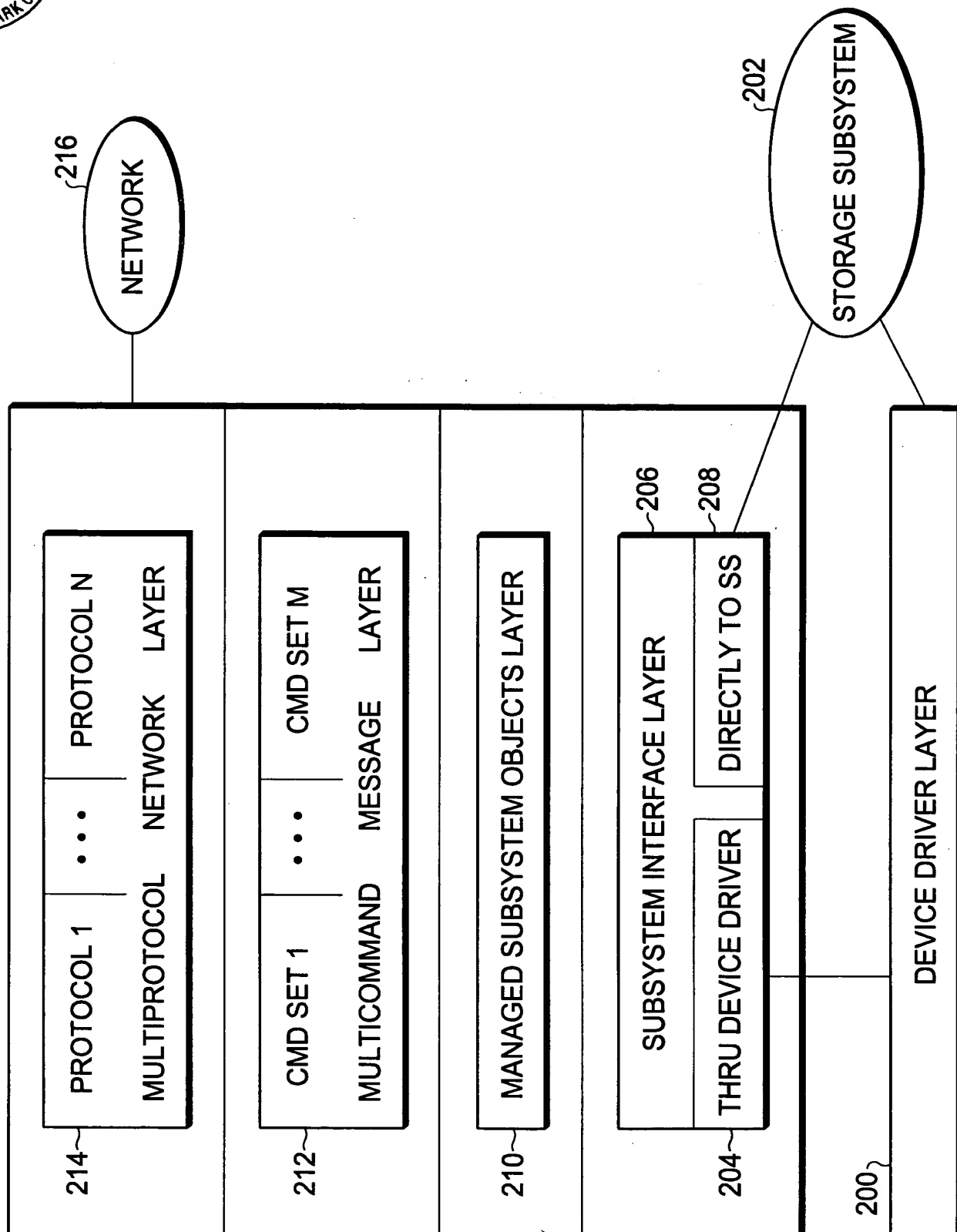


Fig. 4



ACIF FILE STRUCTURE

302		304		306		308		310	
ACIF FILE CHECKSUM		FILENAME		PREPROCESSOR REV #		ECO#		ENCRYPTED PASSWORD	

312

POINTER TO OLD INQUIRY DATA OF DEVICE #1	POINTER TO OLD INQUIRY DATA OF DEVICE #1	POINTER TO OLD DEFAULT MODE DATA OF DEVICE #1	POINTER TO OLD DEFAULT MODE DATA OF DEVICE #1	POINTER TO OLD SAVED MODE DATA OF DEVICE #1	POINTER TO OLD SAVED MODE DATA OF DEVICE #1
LENGTH		LENGTH		LENGTH	
BYTE OFFSET		BYTE OFFSET		BYTE OFFSET	
POINTERS TO OLD INQUIRY DATA OF DEVICE #1		POINTERS TO OLD DEFAULT MODE DATA OF DEVICE #1		POINTERS TO OLD SAVED MODE DATA OF DEVICE #1	

314

POINTER TO NEW INQUIRY DATA OF DEVICE #1	POINTER TO NEW INQUIRY DATA OF DEVICE #1	POINTER TO NEW DEFAULT MODE DATA OF DEVICE #1	POINTER TO NEW DEFAULT MODE DATA OF DEVICE #1	POINTER TO NEW SAVED MODE DATA OF DEVICE #1	POINTER TO NEW SAVED MODE DATA OF DEVICE #1	CAP INSTRUCTION SEQUENCE FOR DEVICE #1
LENGTH		LENGTH		LENGTH		
BYTE OFFSET		BYTE OFFSET		BYTE OFFSET		
POINTERS TO NEW INQUIRY DATA OF DEVICE #1		POINTERS TO NEW DEFAULT MODE DATA OF DEVICE #1		POINTERS TO NEW SAVED MODE DATA OF DEVICE #1		

Fig. 5A
Fig. 5B

Fig. 5A

Fig. 5

POINTER TO OLD INQUIRY DATA OF DEVICE #N	POINTER TO OLD INQUIRY DATA OF DEVICE #N	POINTER TO OLD DEFAULT MODE DATA OF DEVICE #N	POINTER TO OLD SAVED MODE DATA OF DEVICE #N	POINTER TO OLD SAVED MODE DATA OF DEVICE #N
BYTE OFFSET	LENGTH	BYTE OFFSET	LENGTH	LENGTH

318

POINTER TO NEW INQUIRY DATA OF DEVICE #N	POINTER TO NEW DEFAULT MODE DATA OF DEVICE #N	POINTER TO NEW DEFAULT MODE DATA OF DEVICE #N	POINTER TO NEW SAVED MODE DATA OF DEVICE #N	POINTER TO NEW SAVED MODE DATA OF DEVICE #N	CAP INSTRUCTION SEQUENCE FOR DEVICE #N	END-OF- LIST MARKER
BYTE OFFSET	LENGTH	BYTE OFFSET	LENGTH	BYTE OFFSET	LENGTH	

320

322

324

326

STORAGE AREA FOR OLD & NEW INQUIRY AND MODE DATA	END-OF- LIST MARKER	ENCRYPTED BINARY FIRMWARE IMAGE	FIRMWARE IMAGE CHECKSUM
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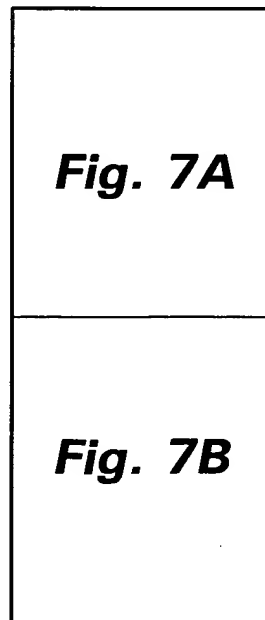


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GROUP 0 - END OF COMMAND MARKER

COMMAND	CAP VARIABLE
END OF COMMANDS	0x00

**Fig. 6**



**Fig. 7**



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## GROUP 1 - SCSI COMMANDS

COMMAND	CAP VARIABLE
SCSI BUS RESET	0x01
BUS DEVICE RESET	0x02
TEST UNIT READY	0x03
REQUEST SENSE	0x04
READ CAPACITY	0x05
REZERO / REWIND	0x06
FORMAT UNIT (DEFAULT-> P-LIST ONLY)	0x07
FORMAT UNIT (BOTH P-LIST AND G-LIST)	0x08
INQUIRY - DEFAULT	0x09
INQUIRY - EVPD - PAGE 00	0x0A
INQUIRY - EVPD - PAGE 01	0x0B
INQUIRY - EVPD - PAGE 02	0x0C
INQUIRY - EVPD - PAGE 03	0x0D
INQUIRY - EVPD - PAGE 80	0x0E
INQUIRY - EVPD - PAGE 81	0x0F
INQUIRY - EVPD - PAGE 82	0x10
INQUIRY - EVPD - PAGE C0	0x11
INQUIRY - EVPD - PAGE C1	0x12
INQUIRY - EVPD - PAGE C2	0x13
INQUIRY - EVPD - PAGE C3	0x14

Fig. 7A





RESERVE	0x15
RELEASE	0x16
MODE SELECT (6 BYTE) - ALL PAGES	0x17
MODE SELECT (10 BYTE) - ALL PAGES	0x18
MODE SENSE (6 BYTE) - ALL PAGES	0x19
MODE SENSE (10 BYTE) - ALL PAGES	0x1A
START UNIT (IMMEDIATE)	0x1B
START UNIT	0x1C
STOP UNIT (IMMEDIATE)	0x1D
STOP UNIT	0x1E
PREVENT MEDIUM REMOVAL	0x1F
ALLOW MEDIUM REMOVAL	0x20
WRITE BUFFER (MODE 4)	0x21
WRITE BUFFER (MODE 5)	0x22
WRITE BUFFER (MODE 6)	0x23
WRITE BUFFER (MODE 7)	0x24

**Fig. 7B**



## GROUP 2 - CUSTOM COMMANDS &amp; HANDLING DESCRIPTORS

COMMAND	CAP VARIABLE
MAKE 6-BYTE CDB	0x81
MAKE 10-BYTE CDB	0x82
MAKE 12-BYTE CDB	0x83
SPECIFY WRITE BUFFER OFFSET SIZE (3-BYTE DESCRIPTOR TO FOLLOW)	0x8E
POINT TO OFFSET IN BUFFER	0x8F
SPECIFY IMAGE SIZE (3-BYTE DESCRIPTOR TO FOLLOW)	0x90
WAIT DELAY 5 SECONDS	0x91
WAIT DELAY 10 SECONDS	0x92
WAIT DELAY 20 SECONDS	0x93
WAIT DELAY 30 SECONDS	0x94
WAIT DELAY 60 SECONDS	0x95
WAIT DELAY 90 SECONDS	0x96
WAIT DELAY 120 SECONDS	0x97

**Fig. 8**



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**Fig. 9A**

**Fig. 9B**

**Fig. 9**

GROUP 3 - SCREEN COMMANDS

COMMAND	CAP VARIABLE
"PLEASE INPUT DECRYPTION PASSWORD FOR THIS ACIF FILE"	0xA0
"SCANNING BUS-PLEASE WAIT"	0xA1
"FIRMWARE UPDATE IS REQUIRED"	0xA2
"FIRMWARE UPDATE IS NOT REQUIRED"	0xA3
"MODE PAGE UPDATE IS REQUIRED"	0xA4
"MODE PAGE UPDATE IS NOT REQUIRED"	0xA5
***DO NOT DISTURB-FIRMWARE DOWNLOAD IN PROGRESS- SYSTEM DATA WILL BE RETAINED"	0xA6
***DO NOT DISTURB-FIRMWARE DOWNLOAD IN PROGRESS- SYSTEM DATA WILL NOT BE RETAINED"	0xA7
***DOWNLOAD SUCCESSFUL***	0xA8
***DOWNLOAD FAILED***	0xA9

**Fig. 9A**



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"NOW UPDATING MODE PAGES"	0xAA
"MODE UPDATE **SUCCESSFUL**"	0xAB
"MODE UPDATE **FAILED**"	0xAC
"DRIVE WILL REQUIRE REFORMAT AFTER CODELOAD"	0xAD
"NOW AUTO-FORMATTING - PLEASE WAIT... THIS MAY TAKE UP TO 1 HOUR OR MORE TO COMPLETE."	0xAE
"FORMAT **SUCCESSFUL**"	0xAF
"FORMAT **FAILED**"	0xB0
"WAIT FOR DRIVE LED TO TURN OFF"	0xB1
"***YOU MUST NOW TURN THE DEVICE POWER OFF TO COMPLETE THE DOWNLOAD PROCESS***"	0xB2
"TO COMPLETE YOUR UPDATE, CREATE A LABEL MARKED REV [CURRENT REV, I.E. C01] AND ATTACH TO DRIVE"	0xB3
"SYSTEM PAUSE - HIT ANY KEY TO CONTINUE"	0xB4
"PLEASE WAIT..."	0xB5

**Fig. 9B**

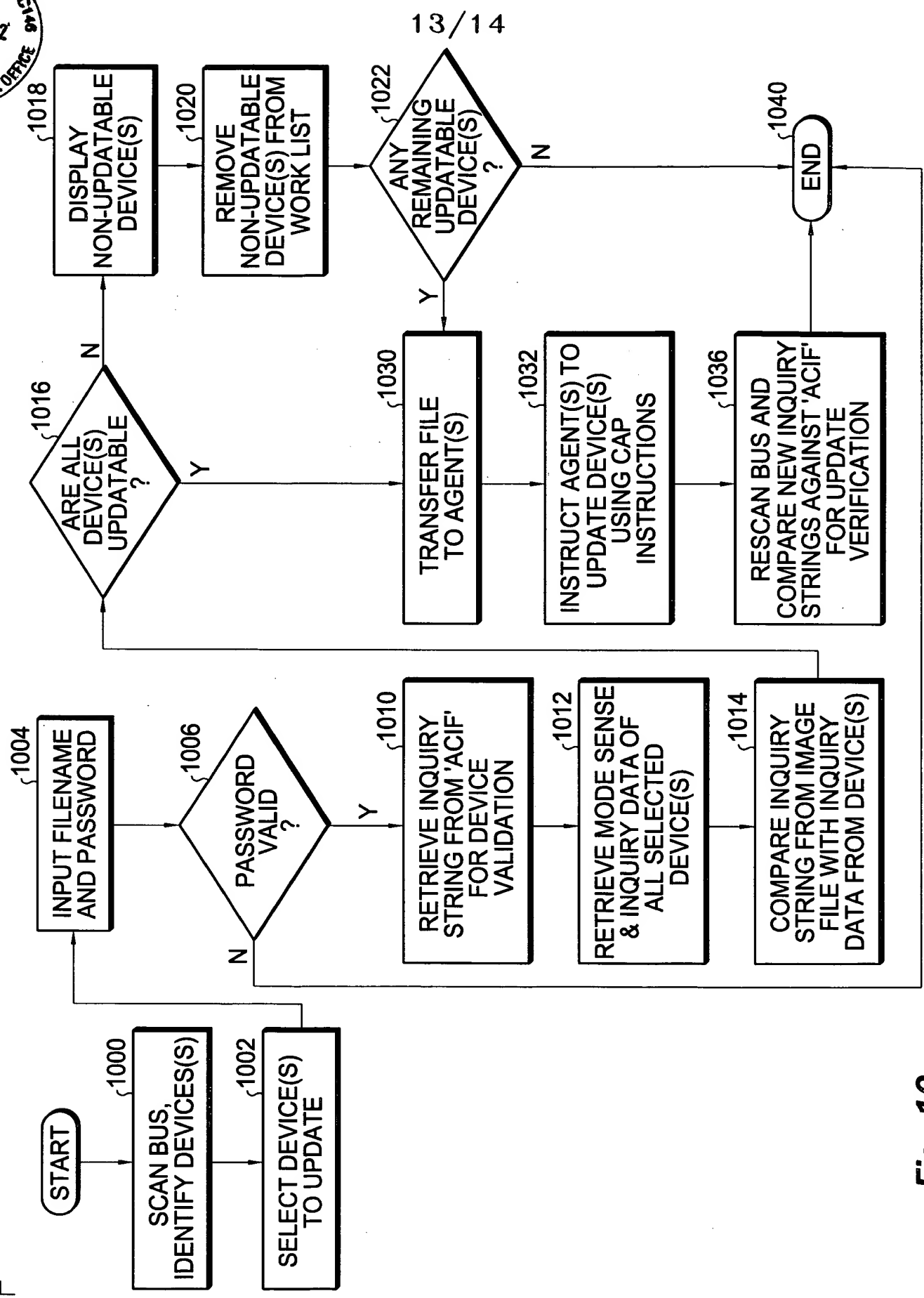


Fig. 10



1102	1104	1106	1108	1110	1112	1114	1116	1118
HEADER SIZE	HEADER REV	VENDOR ID	PRODUCT ID	FW REV	ENCRYPTED PASSWORD	COMMENT	FW LENGTH	FIRMWARE IMAGE

1100

**Fig. 11**